

User's Guide

RUBATO PLAYER



IMPORTANT NOTES

Avoid installing the unit in locations described below.

- Places exposed to direct sunlight or close to heat radiating appliances such as electric heaters.
- On top of other stereo equipment that radiates too much heat.
- Places lacking ventilation or dusty places.
- Humid or moist places.
- Strong magnetic fields

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



DANGEROUS VOLTAGE

Uninsulated Dangerous Voltage, that may be of sufficient magnitude to constitute a risk of electric shock to persons is present within this product's enclosure.



ATTENTION

The Owner's Manual contains important operating and maintenance instructions. For your safety, it is necessary to refer to the manual.

WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. IT IS NOT ALLOWABLE TO MODIFY THIS UNIT BY USER.

WARNING:
ANY ATTEMPT TO OPEN THE DEVICE WILL
RENDER THE WARRANTY NULL OR VOID.

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Chapter 1 - Setting Up the RUBATO



1.1 RUBATO and accessories

- RUBATO Player
- Software Installation CD
- USB Cable
- Universal AC Adapter /Charger
- Stereo Earphones with Microphone
- Carrying case
- Quick Start Guide Booklet

As delivered, the RUBATO battery is not charged. To start using your RUBATO first charge the battery as outlined in 1.2 below.

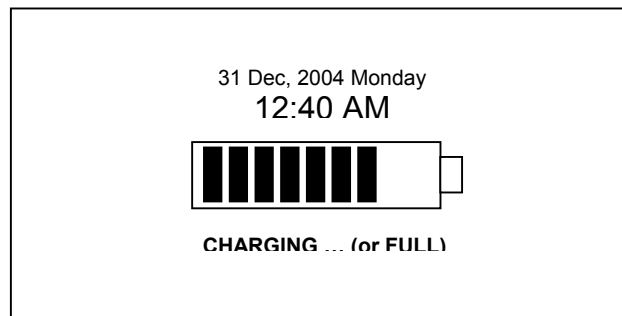
1.2 Charging the Battery

Charging during ON

Your RUBATO comes supplied with an integral rechargeable Lithium-Ion Polymer battery. It is recommended that the battery be fully charged before you use the Player for the first time. To charge the battery, connect the Universal AC Adapter/Charger to the main AC supply and the DC (5V) plug to the “DC-In” socket on the bottom edge of the RUBATO. It will take approximately 3 hours to fully charge the battery. The battery indicator, at the top right hand corner of the display, will show that the Player is being charged, . After 3 hours, unplug the charger; RUBATO will indicate  when the battery is fully charged.

Charging during OFF

If the device is OFF, the display will show the battery-being-charged animated icon, real-time clock, date and the word “CHARGING” to indicate that the battery is being charged. When the battery is full, a battery-full icon and the word “FULL” will be displayed instead.



1.3 Power ON and OFF

To switch the **RUBATO** on, press the “**Power**” button, and the main menu options will be displayed on the screen.

To switch the **RUBATO** off press and hold the “**Power**” button for four seconds. The display will become blank.

If the **RUBATO** is not in the play mode, it will automatically power off after a period. This period is a user-controlled setting, accessed from the Settings Menu >> Power Saving.

1.4 Clock

The **RUBATO** incorporates a real time digital clock. The user can change the value of the date and time via **Settings >> Clock >> Time & Date**.

Use the “**SKIP FORWARD**” and “**SKIP BACKWARD**” buttons, to jump across the value that needs changing (Day, Month, Year, Hour, Minute). Then, use the 3-way switch to adjust to the values desired.

User can choose the time display via **Settings >> Clock >> Clock Display**. If user chooses to display the clock, then the window title of the display will be replaced by date DD-MM-YYYY and a real time digital clock showing the hour (HH), minute (MM), seconds (SS) of the day in HH:MM:SS AM/PM format.

1.5 Running the RUBATO while plugged in

If operating the Player indoors and power is available, it is advisable to operate the Player through the Universal AC Adapter/Charger. This will preserve battery life, especially during power intensive operations such as downloading files from your PC to the Player.

Reset

If the **RUBATO** is not responding to any button presses then it is possible to restart it using the reset switch. Before resetting, check that, the unit has a fully charged battery or is running from the AC Adapter.

Resetting Sequence

Press the reset button with a paperclip.

1.6 Software Installation & Usage:

The CD that comes with the player contains -

- Windows Media™ Player Software in many languages (English, French, German, Spanish, Italian, Swedish and Portuguese). You can use Windows Media™ Player to download, copy, rip and play your music.
- Mixman Studio™ Software enables the budding musicians to create their own music by “mixing” various predetermined sounds, adding voice and then synchronizing it to a desired beat. Visit the Mixman’s official website for detailed information (www.mixman.com).
- MusicMagic Mixer™ software is a powerful music library tool that allows users to create dynamic and interesting playlists, or mixes. MusicMagic automatically analyses your music collection. Analysed songs are used to build custom mixes for hours of listening enjoyment. Visit MusicMagic’s official website for detailed information (www.music.predixis.com).
- Soft copy of **RUBATO** Manual and Quick Start Guide
- Drivers for Windows 98SE

- Registration form

1.6.1 Installation of RUBATO Device on your computer

For Win98 users, please connect device to the PC using USB connection. Wait for PC to detect the new hardware. When it asks for the installation CD, insert the CD and follow onscreen commands. Windows 98 will then install necessary drivers.

Power on the **RUBATO** and connect the **RUBATO** to your PC using the USB cable provided. Launch Windows Explorer on the PC, and click on the “My Computer” folder. Windows will automatically recognise the **RUBATO** as a removable storage device available to Windows. The **RUBATO** will be allocated a drive letter (as with the existing storage devices on your PC) and will be listed among the other storage devices. You can treat this drive like any other system drive. Windows supports the full range of file handling functions including: drag and drop, copy, paste and delete. You can organize the drive space by creating folders and sub folders, as you require.

1.6.2 WAV, MP3 and WMA formats

The **RUBATO** supports WAV files for low bit rate voice radio and auxillary audio recording and two compressed music file formats: MP3 and WMA. The **RUBATO** will play files in either file format automatically. MP3 and WMA extensions denote that these are compressed files.

The **RUBATO** is shipped with a few tracks loaded on the HDD. Your choice of format and compression standard will affect the quality of the music and the corresponding file size.

1.6.3 Managing Music with Windows Media Player

With Windows Media TM Player installed on your PC, you can either build a library of music files on your PC by “ripping” your audio CD collection or by adding already encoded MP3 or WMA files to your PC. (If you do not have Windows Media TM Player installed on your PC, load the copy supplied with the **RUBATO** CD. Follow the installation instructions, which will be automatically presented when the CD is installed in the drive.)

To load music from the PC, connect the **RUBATO** to the PC using the USB cable provided. The USB socket is on the bottom edge of the **RUBATO**. Select the Windows Media Application on your PC and follow the Application instructions for the transfer of files.

For DRM and copy protected music adding please referred to 1.7

1.6.4 Managing Music with Windows Explorer Software

With the player connected as in 1.6.1. Windows supports the full range of file handling functions including: drag and drop, copy, paste and delete. You can organize the drive space by creating folders and sub folders, as you require.

Drag and drop files from your desktop to the folder of your choice on the device. You can also use standard windows copy commands to transfer these files. Wait until all files are transferred – this can take a few seconds after the copying window has closed.

Now remove the USB cable from the **RUBATO**, the Player will restart automatically. The PLAYER will now index the new files you have downloaded; during this process, **RUBATO** will display progress information on the display. This process may take several minutes, after which the top-level menu will be displayed and you can now access your music.

You can also transfer data files this way, and use your **RUBATO** as backup, or standard file storage. The data files are not visible in the **RUBATO** display. All management of these files must be done with the player connected to a computer.

For DRM and copy protected music adding please referred to 1.7

1.6.5 Creating New Folders and Sub-folders on the RUBATO from your PC

New folders and sub folders can be created on the **RUBATO** from your PC. This is done through the Windows operating system, with the player connected as in 1.6.1. Launch the Windows Explorer and select the **RUBATO** drive by selecting "FILE | NEW > FOLDER". A new folder can be created at any point in the directory structure. Refer to the Windows Help for further information about file management.

1.6.6 Copying and Moving Data Files to the RUBATO from your PC

Files can be copied and moved to the **RUBATO** from your PC. This is done over USB connection using the Windows operating system with the player connected as in 1.6.1 above. Launch the Windows Explorer and select the **RUBATO** drive, select the file or folder to be moved and drag and drop to the new location. A "Move" will be the default action if the source and destination are on the same drive, a "Copy" will be the default operation if the source is on a different drive from the destination. Refer to the Windows Help for further information about file management.

Data files will not be listed with the music file in the index but should be organised and managed with the **RUBATO** attached to the PC.

1.6.7 Deleting Files from the RUBATO using Windows

Files can be deleted from the **RUBATO** during PC connected session. This is done from the Windows operating system with the player connected over USB as in 1.6.1 Launch the Windows Explorer and select the **RUBATO** drive. Select the file you wish to delete and press the delete key. Multiple files can be selected by holding down the control key while selecting files to delete.

Refer to the Windows Help for further information about file management.

1.7 Enjoying Digital Rights Management Or Copyrighted Music

There are several major Digital Rights Managers (DRMs) for music. The two major DRMs are Windows Media Agent (WMA) and Fairplay from iTunes. These systems are non-compatible. Whilst Apple's iPods and iTunes both have devices and music for the Windows platform, these devices and musical offerings are not compatible with Windows DRM and/or other Windows based devices. This music may, however, be played on the desktop.

As of December 2004. Check www.entempo.com for updates	Mac Devices	Windows Devices	Desktop	Export to MAC Portable Device	Export to Windows Portable Device
---	----------------	--------------------	---------	--	--

iTunes	Yes	Yes	Yes	Yes	No
Windows WMA Based Providers include					
- MSN	No	Yes	Yes	No	Yes
- Napster					
- Wallmart					
- Musicmatch					

There has been much talk of copyrights in the past, and discussion over legitimate downloads. Many companies offer these services at low prices. Artists and composers have adopted a system of encryption or DRMs in order to protect their work. This simply takes the format of “permissions” which gives the purchaser specific rights: e.g. to have unlimited plays or, conversely, limited to 30 days from date of download or 5 plays (e.g. in free sample tracks). These permissions also include the right to burn CDs, export to portable devices and other restrictions. The user must adhere to these permissions in order to enjoy the music. Any violation will cause the track to be “dead” and unplayable.

Entempo's **RUBATO** allows the user to enjoy his downloaded music from legitimate Windows based sites on the desktop as well as on portable devices. In order that this **music can be played on the portable device, this music must be exported in a certain manner from the desktop using Windows Media Player (WMP)**

1.7.1 Window Media Player (WMP)

Go to Microsoft's Windows Media Player Site for valuable tips and information before you start to export music to your portable device

<http://www.microsoft.com/windowsmobile/portablemediacenter/tips.mspx>

Microsoft has developed an informative presentation with the features of its WMP.

<http://www.microsoft.com/windowsmobile/portablemediacenter/windowsmedia.mspx>

WMP is Microsoft's Music Player and Digital Rights Manager based on their Windows Media Agent. This sophisticated player offers a variety of features and is able to manage and optimise your total music collection: through ripping of CDs (converting the format). It will also allow the creation of Playlists as well as editing incorrect track names. WMP 10 offers the user the possibility to synchronize the music on the PC's hard drive with the device. (see 1.7.4 Synchronization and Playlists)

WMP is the agent for exporting music to the **RUBATO** portable player. The latest version of WMP is included on the accompanying CD. Go to the CD, choose the language of your choice and install the player. In some cases you may need to download the latest software from Microsoft's website. At this time, or even later, you may ask WMP to search your hard disk and insert all your musical tracks to the library. We draw from this library to create Play Lists or smaller selections or groups of music

1.7.2 Non-DRM Music

Music can be added to the library in several ways. If there are no DRM tracks (i.e. music from official download sites) tracks can be dragged in their folders from the PC to your device. The **RUBATO** appears as a new drive letter with the word “**RUBATO**”.

The songs will be visible in the tracks, artists and genre menus if the information is available (ID3 headers – see below). Tracks and Artists will be organized in alphabetical order. By using the playlist manager, or Music Magic mixer, playlists can be created on the device. [See 1.7.4 Synchronization and Playlists section of this manual]

1.7.3 DRM Music

This music must be exported to the device using Windows Media Player in order to preserve format and copyright integrity. DRM tracks can be sequenced with MP3 or WMA tracks. **RUBATO** plays these tracks seamlessly for greater music enjoyment.

Mixed Music Collections (MP3, Unprotected WMA and DRM WMA)

This collection must be managed in a manner that provides the user with greatest flexibility in creating playlists. It is suggested that a special folder for new DRM music be created. This folder can then be synchronized to the device so that the device is always updated with the latest music.

1.7.4 Synchronization and Playlists

Synchronizing

Window media player offers users the ability to synchronize the library of music in WMP 10 with your portable device. In order to do this, ensure that the library in WMP is updated. Music can be easily added through WMP. [File>>>Add to library>>> Folders or search hard drive]

Synchronization will store your music by artist in a separate folder called “Music” on your portable device.

Synchronization may be made automatically every time to connect RUBATO or manually. Options such as the synchronization of ALL Music in your library, selected tracks may be chosen prior to synchronization.

Creating Playlists via MusicMagic™ Mixer Software (on the PC)

Create playlists on the device directly via the Playlist Manager, or for a faster way, use the included MusicMagic™ Mixer Software installed on the PC.

First, make sure that the device is attached properly to and recognized by the PC. Open the MusicMagic™ Mixer Software. If the RUBATO is not already in the Filters/Playlist window on the left, go to File >> Devices >> Scan for New Devices, and it should appear.

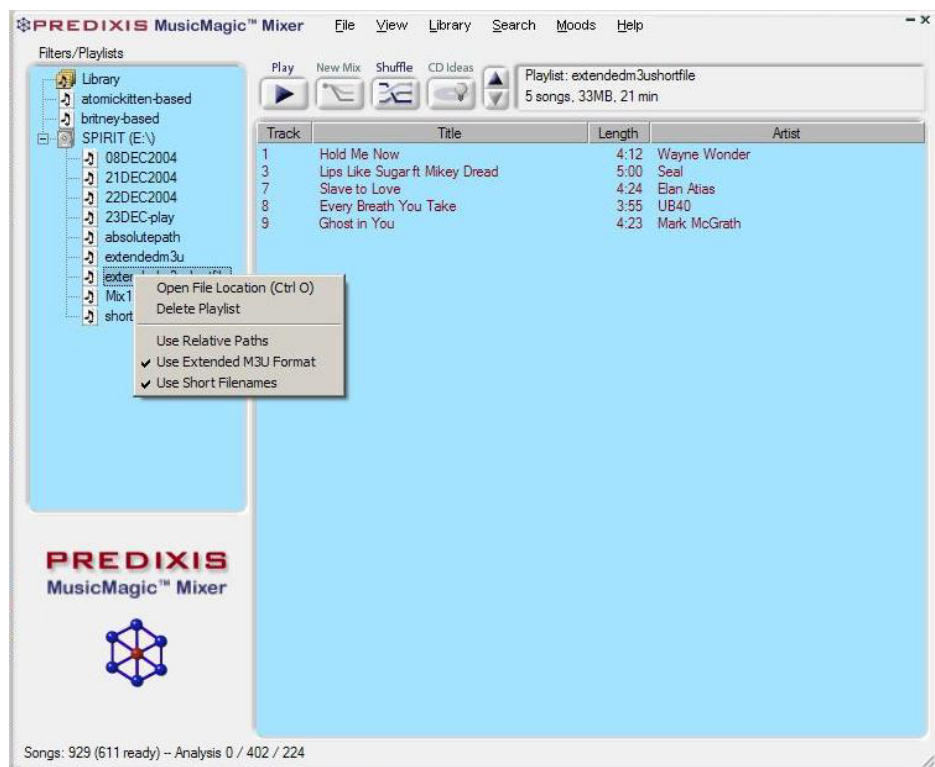
Right click on the RUBATO and choose “New Playlist”. Name your new playlist. You should be able to now browse the RUBATO device and drag and drop tracks into the playlist. Once you are done, right click on the playlist name and select “Save Playlist”. Make sure also that the “Use Extended M3U Format” and “Use Short Filenames” options are checked. If you disconnect the RUBATO device properly from the PC, you should be able to see your newly saved Playlist in the Main Menu >> Playlist of the device. Select it to playback the tracks on the playlist.

1.8 Creating Instant Music Mixes with MusicMagic™ Mix (on the device)

Select MusicMagic™ Mix from the Main Menu of the device. This will allow users to choose the reference track from which MusicMagic™ will automatically create a playlist containing songs that have close “likeness” to that reference track. This special playlist, called a mix, is accessible from Main Menu >> Playlist. You can edit this mix, just like any other playlist, using the Playlist Manager.

For more extensive mix, you can use the PC version of the MusicMagic™ Mixer software to create playlists based on multiple criteria (see the MusicMagic Mixer Software manual for further details).

Note: For this feature to work properly, please ensure that all music tracks have been ANALYZED by Music Magic Mixer software on the PC, prior to transferring to the device via Drag-n-Drop method or Windows Media Player's Synchronization function. Please see the Music Magic Mixer Software manual for further details on music analysis.



Chapter 2 – Using RUBATO Once Charged

2.1 RUBATO Button Layout



Volume Up	Increases the volume level; progress bar on Playback screen converts to volume indicator
Volume Down	Decreases the volume level; progress bar on Playback screen converts to volume indicator
3-way Select button	
Navigate Up (slide up)	In menus, moves cursor up; in FM radio, moves across frequency range
Navigate Down (slide down)	In menus, moves cursor down; in FM radio, moves across frequency range
Select (Press in)	Brings up the top level menu from play, else navigates down one level; in radio selects frequency as new preset.
Menu	Shows top level menu.
Play/Pause/Stop	Starts playback, else pauses playback, and else Stop. In FM radio or AUX starts and stops the recording.
Skip Forward	Fast forward or skips to next track, navigates down one menu level, in radio step forward through presets.
Skip Backward	Fast backward or skips to previous track, navigates up one menu level, in radio steps back through presets.
Record	Starts and stops a voice recording from the internal microphone.
Reset	Resets the player under error conditions.
POWER ON/OFF	Power ON or OFF.
HOLD Switch	Disables/Enables all button functions.
BACK	Moves back menu level.

Note: If you have entered the top-level menu from playing a track, pressing the “**BACK**” button will take you back to play. “**MENU**” button always takes you back to top menu.

2.1.1. Power ON and OFF

See section 1.2.1

2.1.2. Volume

During play mode, the headphone volume can be adjusted by pressing the “**Volume Up**” button or the “**Volume Down**” button. A volume level indicator will be displayed on the screen, for several seconds, indicating the new volume level.

2.1.3 Hold/Button Lock

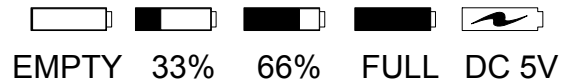
The button pad may be locked to prevent unintentional pressing of buttons or the unintended activation of functions. To lock the buttons, push the HOLD switch downward and users will see a “LOCK” icon on the top left corner of the display, next to the “Transport Control” icon. To unlock, push the HOLD switch upward.

2.1.4. Title Bar

This is the top line of the display and is used to indicate what the player is currently doing. If the user is browsing through the menu system, the title bar will display the name of the menu or “**RUBATO 20**” if it is the top-level menu. If the player is in play mode then the title bar will display “Now playing”. If the user has set the real time clock to be displayed, then the title bar will display the Date and Real Time clock (see 2.5.2 Clock for more information)

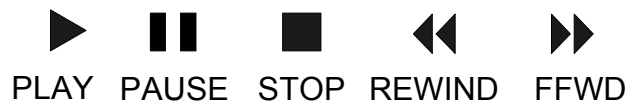
2.1.5 Battery Indicator

When the player is switched on, this icon will display the status of the battery. This will show the battery as either: full, half or empty. When the player is being recharged, this icon will change into a DC 5V icon when the player is turned on. When the player is switched off and not being recharged, this icon will not be displayed. See section 1.2 for charging during off.



2.1.6 Transport Control Icons

During play mode the status icon will be displayed as either: play, pause or stop depending on the current activity performed by the player.



2.1.7 Vertical Scroll Bar

At any time, if the amount of information to be displayed exceeds the size of the screen, a vertical scroll bar will be displayed on the right hand edge. This will indicate the current position into the information to be displayed. Use the “**Navigate Up**” and “**Navigate Down**” buttons to view information before or after the current view respectively.

2.1.8 Track Progress Bar

When a track is being played, a progress bar is displayed showing how much of the track has been played and how much remains; the amount of time elapsed in minutes and seconds is displayed to the left of the progress bar in minutes and seconds.

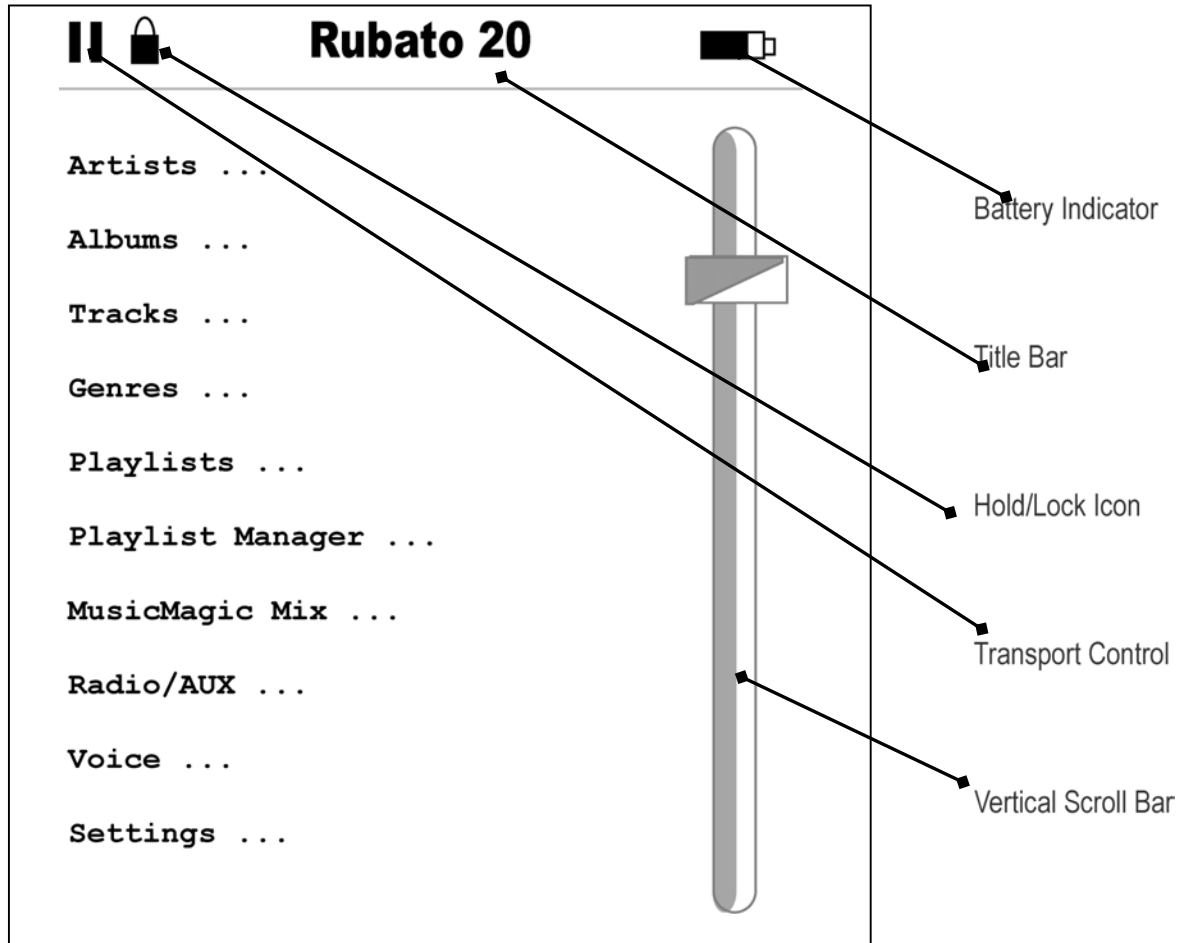


When the **RUBATO** is playing a music file, pressing the “**Navigate down**” button will display the total track duration. The display will return to the play back screen after 3 seconds.

2.2 Menu Screen

This screen will display the contents of the current menu or sub-menu and will vary according to the type of submenu selected.

The RUBATO Menus



2.2.1 Top-level Menu

- Artists
- Albums
- Tracks
- Genres
- Playlists
- Playlist Manager
- MusicMagic Mix
- Radio
- Voice
- Settings

Note: If you have entered the top-level menu from playing a track pressing the **"BACK"** button will take you back to play. **"MENU"** button will always take you back to top-level menu.

2.2.2 Selecting and Playing Music Files

All music stored on the **RUBATO** can be referenced by any of the following: Album name, Artist name, Track name or Genre. A music file can be located by initially selecting any of these categories from the main menu. Playlists can also be created and accessed.

If the **RUBATO** is displaying a menu other than the top-level menu, by pressing the **"MENU"** button will bring back the top-level menu. The **"Back"** button will display the previous menu until the top-level menu is displayed.

The **"Navigate Up"** and **"Navigate Down"** buttons can be used to highlight a menu item, and then press the **"Select"** button to select that item from the current list. If there is a **"..."** symbol to the right of the item then pressing the **"Select"** button will display a sub menu related to the item. Each sub menu can be searched using the **"Navigate Up"** and **"Navigate Down"** buttons. Once the item of interest has been found, press the **"Select"** or **"Play"** button to start playing your choice.

When the **RUBATO** is playing a music file, pressing the **"Navigate down"** button will display the total track duration. The display will return to the play back screen after 3 seconds.

2.2.3 Artists

This menu selection allows you to view the available list of artists that have been loaded onto the **RUBATO**. Selecting an artist and then pressing the:

- **"Play"** button will cause the player to enter play mode and play the first album found by the selected artist. Albums are stored alphabetically. If any of the play modes (Random, Repeat, Intro) are switched on, then this will be applied to the selection.
- **"Select"** button will display a list of albums by the selected artist. The list of albums will be displayed in alphabetical order. An album can be selected from this list and played by pressing the **"Play"** button.

2.2.4 Albums

This menu selection allows you to view the available list of albums that have been loaded onto the **RUBATO**. Selecting an album and then pressing the **"Play"** button will cause the player to enter play mode and play from the selected album. If any of the play modes (Random, Repeat, Intro) are switched on, then this will be applied to the selected album.

2.2.5 Tracks

This menu selection allows you to view the available list of tracks that has been loaded onto the **RUBATO**. Selecting a track and then pressing the **"Play"** button will cause the player to enter play mode and play the selected track. If any of the play modes (Random, Repeat, Intro) are switched on, then this will be applied to the selected track.

2.2.6 Genre

This menu selection allows you to view the available list of genre that has been loaded onto the **RUBATO**. Selecting a genre and then pressing the:

- **“Play”** button will cause the player to enter play mode and play the first album found by the selected genre. Albums are stored alphabetically. If any of the play modes (Random, Repeat, Intro) are switched on then this will be applied to the selection.
- **“Select”** button will display a list of tracks in the selected genre. The list of tracks will be displayed in alphabetical order. A track can be selected from this list and played by pressing the **“Play”** button.

2.2.7 Playlists

Selecting Playlists will display a list of all current Playlists stored on the **RUBATO**. Use the **“Navigate Up”** and **“Navigate Down”** buttons to highlight the desired Playlist. Press **“Play”** to start the playing the tracks on the Playlist.

2.2.8 Playlist Manager

In the Playlist Manager, Playlists can be created and stored. Selecting Playlist Manager will display a sub menu as below:

- Create New Playlist
- Modify Existing Playlist
- Delete Existing Playlist
- **“Create New Playlist”**: Select this option by pressing the **“Select”** button. The **RUBATO** will display the next available play list number automatically. The **RUBATO** will display a further submenu of Artist, Album, and Tracks. Select one of these options using the **“Navigate Up”** and **“Navigate Down”** buttons and pressing the **“Select”** button. Proceed down through the listed music using the **“Navigate Up”** and **“Navigate Down”** buttons to locate the music you want to add to the Playlist. Pressing, **“Play”** will add the highlighted selection to the Playlist. Multiple presses of the **“Play”** button will add multiple copies of the track to the Playlist. When the Playlist is completed, use the **“Back”** button until the top-level menu is displayed.

“Modify Existing Playlist”: Select this option by pressing the **“Select”** button. The **RUBATO** will display a sub menu **“Add track”/“Delete track”**. The action selected will be displayed at the bottom of the screen, i.e. **“< Modify – Add>”** or **“<Modify – Delete>”**. Using the **“Navigate Up”** and **“Navigate Down”** buttons select the Playlist to be modified by pressing **“Select”**.

- **Add Track**: **RUBATO** will offer Albums, Artists, Tracks as options. To add tracks proceeds as in **“Create New Playlist”**
- **Delete Track**: The **RUBATO** will display the contents of the Playlist. Use the **“Navigate Up”** and **“Navigate Down”** buttons to highlight the track that is to be deleted. Press **“Select”** to confirm the selection of track and then press and hold the **“Play”** button to delete the track.
- **“Delete Existing Playlist”**: Select this option by pressing the **“Select”** button. The **RUBATO** will display the current list of Playlists. Using the **“Navigate Up”** and **“Navigate Down”** buttons highlight the Playlist to be

deleted. Press **“Select”** to confirm the selection of the playlist. Then press and hold the **“Play”** to delete the Playlist.

- Use the **“Menu”** button to get back to the top-level menu.

Creating Playlists via MusicMagic™ Mixer Software (on the PC)

Please see section 1.7.4 Synchronization and Playlists

2.3 MusicMagic Mix (Creating)

PLEASE READ THE PREDIXIS MagicMusic MANUAL BEFORE USING MusicMagic in the RUBATO

Press Menu Button to reach the top-level menu.

Use 3Way key (Up/ Down) to select MusicMagic Mix item, and press Select to enter into next submenu.

User will be given the familiar Artists, Albums, Tracks and Genres folders to choose ONE Song.

Once the ONE Song is chosen, the Predixis algorithm will automatically generate a list of X number of songs based on the “similarity” of these songs with that ONE song selected by the user. X is a user set number accessed in Settings > MusicMagic Mix .

While MusicMagic is creating the mix, it will notify the user to wait. Once the mix is ready, user can start playing the mix, or exit to Main Menu

Once the mix is created, it is automatically saved as “MIXyy” (where yy is 01-10, this mix will be treated like a normal playlist and is available for retrieval in the Playlist Menu. The player will reuse the number 01-10 and overwrite existing MIXES if user has more than 10 MIXES created.

The user can access and edit these playlists from the Playlist Manager (in section 2.2.8)

2.4 FM and Auxiliary Audio Sources

Note: The FM radio feature is NOT available for devices sold in EU countries.

Select Radio/AUX from the top-level menu using the **“Navigate Up”** and the **“Navigate Down”** buttons. The **RUBATO** will offer a further submenu of

- **AUX...**
- **FM...**

2.4.1 FM

The **RUBATO** has an integral FM tuner with 10 preset capabilities.

Select FM from the menu using the **“Navigate Up”** and the **“Navigate Down”** buttons. The **RUBATO** will offer a further submenu of

- **FM Tuner...**
- **FM Recordings...**

Select FM Tuner for FM Radio.

- **Auto-Tuning**

Your player will attempt to automatically tune and preset 10 different stations upon entering the Tuner mode the first time. The auto-tuning function will stop once all 10 presets are populated. If you would like to interrupt the auto-tuning process, pressing the **"Select"** or **"Menu"** button once will stop it and take you back up to the Radio menu. Press **"Select"** again to re-enter Tuner mode. If you would like the device to automatically do preset again, pressing the **"Skip Backward"** and **"Skip Forward"** buttons simultaneously will trigger the auto-tuning function.

- **Tuner: Adjusting the Radio**

You can manually tune the FM radio frequencies in increments of 100kHz using the **"Navigate Up"** and **"Navigate Down"** buttons. Stopping at a point will play the radio station on that FM frequency. However, a long press using the **"Navigate Up"** or **"Navigate Down"** buttons will cause the Tuner to **search up** or **down** the next available station.

- **Setting Presets**

Once you are tuned to the station of your choice, by using the **"Navigate Up"** and the **"Navigate Down"** buttons, pressing and holding the **"Select"** button will add that FM station of that frequency to the preset on the player. The preset is shown as **"PO1"** ... **"P10"**

Note: If you would like to change the station assigned to a particular Preset, select the Preset (see 2.4.1.5 below) and adjust to the new frequency. Once you are tuned to the right station, pressing and holding the **"Select"** button will replace the old station with the current station that you are listening.

- **Selecting Presets**

Tuner allows you to move through the preset of FM radio frequencies. Using the **"Skip Forward"** and the **"Skip Backward"** buttons will move you through the presets already stored on the **RUBATO**.

- **Record**

To record from an FM station, press **"Play"** button to begin recording while listening to the station. Press **"Play"** button again to stop recording and to start saving the recording to the drive.

- **Listening to FM Recordings**

After you have recorded the music of the station of your choice, you can choose to listen to the recordings by going to the RECORDINGS sub menu. The recordings are listed in an increasing numerical manner. Thus, the latest recordings will be at the bottom of the list. The recordings will be named **"Rxxx"** (where xxx is an increasing number 000-999).

Main Menu >> RADIO/AUX...>> FM...>>FM Recordings..., from a list that looks like the following: The recordings are retrieved from

R001
R002
...

- **Exiting FM**

To leave the FM radio sub menu, press either the **"Back"** button or the **"Menu"** button once.

2.4.2 Auxiliary Audio

The **RUBATO** allows the user to listen to any auxiliary audio sources via its built-in 3.5mm AUX Line-in jack. Just plug in the external audio source into the jack and go to Main Menu>> Radio/AUX... >>AUX... >> AUX to listen to it.

- **Recording**

The user can record AM/Auxiliary Audio while listening to the source. Just press, "Play" to initiate a recording and press "Play" again to stop.

- **Listening to Auxiliary Audio Recordings**

After you have recorded the music from the auxiliary audio your choice, you can choose to listen to the recordings by going to the RECORDINGS sub menu. The recordings are listed in an increasing numeric order. Thus, the latest recordings will be at the bottom. The recordings are retrieved from the Main Menu >> Radio/Aux... >> AUX... >> Recordings sub menu. The recordings will be named "Axxx" (where xxx is an increasing number 000-999).

The recordings are retrieved from
Main Menu >> RADIO/AUX...>> AUX...>>AUX Recordings... from a list that looks like the following.

A001
A002
...

- **Exiting Auxiliary Audio Recordings**

To leave this mode, press either the "Back" button or the "Menu" button once

2.4.3 Voice

The **RUBATO** has an integral voice record capability.

- **Voice: Recording voice**

There are two ways to record voice on the **RUBATO** digital audio player.

These are:

- a) By activating the switch on the microphone built into the ear-bud and the recording will be done via the microphone in the ear bud.
- b) By activating the record button and the recording will done via the microphone built directly into the device.

The voice record buttons on the unit and the headset both operate in a toggle mode. Press these buttons to activate recording and press again to stop recording. The player will then store the recording in the Recordings list and resume operation from its state before record was initiated.

- **Voice: Replaying voice recordings**

Select **Voice** from the top-level menu and select "**Recordings ...**". This will display a list of recordings stored on the player. Use the "**Navigate Up**" and the "**Navigate Down**" buttons to select the recorded voice. To replay the recorded message presses the "**Select**" or "**PLAY**" button. During replay, you can press "**Select**" to leave the recording and **Back** to previous menu. Pressing "**Menu**" will bring back to the top-level menu.

2.5 Settings

The settings menu contains the adjustable settings for the player and allows you to customise your **RUBATO's** mode of operation.

2.5.1 Backlight

The **RUBATO** has a backlight for the display, which helps viewing in poor lighting conditions. Selecting "**Backlight**" toggles the backlight on and off.

2.5.2 Clock

- **SETTING CLOCK**

The **RUBATO** incorporates a real time digital clock. The user can change the value of the date and time via

```
.Settings...
    >> .Clock...
        >> .Time & Date...
```

Use the "**SKIP FORWARD**" and "**SKIP BACKWARD**" buttons to jump across the values that need changing (Day, Month, Year, Hour, Minute, Second). Then, use the 3-way switch to adjust to the values desired.

- **CLOCK DISPLAY (ON/OFF)**

User can choose whether to display the time or not via

```
.Settings...
    >> .Clock...
        >> .Display ---- this will toggle Clock display ON or OFF
        >> Time Format --- this will toggle 12 or 24 hour format display.
```

If user chooses to display the clock, then the window title of the display will be replaced by date DD-MM-YYYY and a real time digital clock showing the hour (HH), minute (MM), seconds (SS) of the day in HH:MM:SS AM/PM format.

2.5.3 MusicMagic Mix (Setting the number of tracks in a mix)

To set the number of tracks that MusicMagic creates in a mix, go to Settings >> MusicMagic Mix. Use the "**Navigate Up**" and "**Navigate Down**" buttons to choose the number of tracks that the user wants. If the number of tracks in the device is less than the wanted number of tracks in the mix, MusicMagic will automatically try to create a mix with the number of tracks as close as possible to the intended number.

For example: If the number is set to 50, and MusicMagic cannot find 50 tracks to populate the mix, it will try to get as close to 50 as possible

2.5.4 Equalizer

The **RUBATO** has preset equalization settings and a built in graphic equalizer. The graphic equalizer allows you to adjust the signal strength of different portions of the audio spectrum (frequencies) so that you can get "equal" performance across the audible spectrum. A graphic equalizer divides the entire spectrum into pieces. This lets you set the signal strength for a specific frequency section (called bands) and lets you adjust the strength (volume) of each band up or down from the original signal.

Select "Settings | Equalizer | Graphic EQ" to customize the equalizer settings to your own preference. Use the "**Skip Forward**" and the "**Skip Backward**" buttons to select a frequency range and adjust the level using the "**Navigate Up**" and "**Navigate Down**" buttons. Press "**Select or Menu**" to leave the graphic equalizer.

These settings will be preserved until they are next changed. Alternatively, select “Settings | Equalizer” and highlight one of the following presets (Normal, Rock, Jazz, Classical or Pop). Press “**Select**” to activate one of the standard equalizer settings stored in the **RUBATO** player.

2.5.5 Playback Modes

The **RUBATO** has three additional playback modes other than standard playback. These additional modes can be switched on or off from the settings menu. From the settings menu, scroll down until you find the required play mode and press the “**Select**” button. The play mode can be toggled ON or OFF by pressing the “**Select**” button. Press “**Back**” button to leave this option.

- **Random** – will select music randomly according to the selection criteria (Album, Artist, Track or Genre)
- **Repeat** – at the end of the current music this mode will repeat according to the selection criteria (Album, Artist, Track or Genre)
- **Intro Mode** – this will play the first 10 seconds of each track in the selection criteria (Album, Artist, Track or Genre)

2.5.6 Contrast

The contrast on the display can be adjusted. Select “**Contrast**” and a contrast bar will be displayed. Use the “**Skip forward**” and “**Skip Backward**” buttons to increase and decrease the contrast. Use “**Select**” to move back to the main settings menu.

2.5.7 Power Saving

The **RUBATO** has an auto power off feature that will preserve the battery life when the player is not being used. You can control this feature from “Settings | Power Saving”. Highlight the required function from the following list: Disable, 1min, 2min, 5 min, 10 min. Press “**Select**” to save you’re setting and return to the settings menu.

Note: This feature is only active when the **RUBATO** is powered from the battery alone.

2.5.8 Refresh Index

The player automatically looks for new files when it starts up. Should you suspect that the player has not recognised a file, which you have added, then the “**Refresh Index**” option will initiate a complete re-indexing of all the material on the hard drive. This process will take a length of time dependent on the number of files on the drive. To initiate a re-indexing of the files on the player use the “**Navigate Up**” and “**Navigate Down**” buttons and press “**Select**”.

Note: RUBATO does not automatically synchronize your desktop with the music files on your PC.

2.5.9 About

The “**About**” menu displays information describing the revision of the firmware loaded in your **RUBATO** and the maximum capacity of the hard drive.

2.5.10 Exiting Settings

To leave the settings menu press the “**Back**” to the previous menu and press “**Menu**” button to the top of the menu.

Chapter 3 - RUBATO Specification and Information

3.1 PC System Requirements

- Pentium Class 300MHz processor or better
- Windows® 98SE/Me/2000/XP
- 96 MB RAM (32 MB for Win98)
- 50 MB hard drive space
- Microsoft Internet Explorer 5.0 or later
- CD-ROM drive
- USB host socket
- Souncard

3.2 Audio Specifications

- Audio S/N (signal-to-noise ratio): more than 90 dB
- Audio THD (total harmonic distortion): less than 0.1%
- Frequency response: 20Hz – 20kHz

3.3 Key Features

- Playback of MP3 and WMA (mpeg-1 audio layer-3) at bit rates of up to 320 kbits/sec, 8 to 48 kHz.
- Unit can be used as an external DATA drive
- Familiar Windows "explore" hierarchy model for searching, viewing and managing jukebox content
- The Album, Artist, Track or Genre hierarchy enables easy management of large volumes of music
- Large LCD Backlight display
- Five band equalizer adds personalized controls and optimal audio settings
- 3 way SELECT switch: Navigate Up, Navigate Down, Select/Menu
- Eleven button key controls: Volume UP, Volume Down, Play/Pause/Stop, Skip Backward, Skip Forward, Record, BACK, Menu, Reset, HOLD Switch and Power ON/OFF.
- Reset
- Audio-out (headphone) jack, USB 2.0 port
- Extended battery life through SDRAM buffer
- Lithium ion polymer Rechargeable battery and battery meter
- USB 2.0 interface for fast and easy connection to personal computer
- Charging through USB cable
- Downloadable and upgradeable Device Software via USB connection for latest updates and features
- Move music content between player and PC using USB
- Plays FM radio
- Records from FM radio
- Records voice
- Instant Recording through the earbud microphone
- Auxiliary Audio
- Records Auxiliary Audio
- WMA DRM
- Autoplaylist with MusicMagic Mix
- Clock

Chapter 4 - Precautions for Use




To maintain the high quality performance from your **RUBATO** do not use the unit in areas of extreme heat, cold, dust or humidity. In particular, do not keep the unit in a high humidity area such as a bathroom, near a radiator or in an area exposed to direct sunlight (such as in a parked car).

As the **RUBATO** contains a HDD that can be damaged and cause loss of data, do not drop the **RUBATO** player, or expose it to excessive vibration and avoid any impacts onto hard surfaces. Do not use the unit while engaged in exercise, which will shake or jog the player repeatedly.

Do not use any chemicals to clean the outside of the player, simply wipe with a damp cloth.

The **RUBATO** contains no user serviceable parts. Do not attempt to open the case of the **RUBATO**, as this will void your warranty.

Chapter 5 - Trouble Shooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
RUBATO will not turn on	Battery Dead	Check that the battery is charged. (See 1.2) Try powering the RUBATO from the universal adapter. (See 1.2)
RUBATO will not respond to any button presses	Button lock is switched on	Switch off the button lock. (See 2.1.3)
There is no sound from the headphones	Headphone plug not inserted correctly Volume is turned down low	Check that the headphone plug is properly inserted. Check that the volume level is not at its lowest setting. (See 2.1.2)
Files are not appearing in the play list when I try to download to the RUBATO	Files in the play list are in unsupported formats	Use the record function in Windows Media Player to encode the files into MP3 or WAV format and save them to your play list.
Display shows 	RAM Test Failure	Visit the support section of web site: www.entempo.com If this does not solve the problem, please email support@entempo.com for further instruction
Display shows 	HDD Test Failure	Visit the web site: www.entempo.com If this does not solve the problem, please email support@entempo.com for further instruction
Display shows 	Boot Failure	Visit the web site: www.entempo.com If this does not solve the problem, please email support@entempo.com for further instruction
RUBATO unresponsive. No button presses function.	System stop	Press the reset button (see 1.5)
If you have not found your answer here, visit the web site www.entempo.com for further troubleshooting and firmware downloads.		

For additional technical support www.entempo.com

Chapter 6 - Warranty

LIMITED WARRANTY

Congratulations on your purchase of your RUBATO product. We at Entempo seek to maintain the highest quality and workmanship in our products in order to give you our customer, a value for your money and a quality product.

Entempo warranties are based on proper usage of the device for the purpose for which it was intended, data storage and portable audio. Any unintended usage may render this warranty null and void. Furthermore, the RUBATO device contains no usable parts. Any unauthorized opening may also render this warranty null and void.

Entempo warrants to you, the original end-user purchaser and holder of this warranty, that the retail hardware product herein (inclusive of any power source or embedded batteries that may be supplied by Entempo) is free of material defects in materials and workmanship at the date of purchase. In the event that the hardware product proves defective during the first two years (24 calendar) months, ("Warranty Period"), then upon provision of your proof of purchase, you are entitled to return the hardware product to us for repair with new or reconditioned parts, or for replacement with a new or refurbished model that is the same or similar to the original (at the discretion of Entempo). This return must be pre-authorized by Entempo or one of its representatives

This warranty is non-transferable and expressly excludes any product that has not been purchased as new from an authorized reseller source. Further, this warranty is ONLY applicable in the country or territory where the product was purchased. Entempo disclaims the applicability of all express and implied warranties on the installation software accompanying this product. You are specifically advised to make a backup copy of any software provided with the product.

Entempo further warrants the repaired or replaced product to be free from defects in material and workmanship for a period of one (2) year from the date of repair or replacement, or the remainder of the warranty period, whichever is the greater. If Entempo undertakes repair or replacement of the product, Entempo may use new or reconditioned parts, and any returned parts or product from you that have been replaced become the property of Entempo. Please note that the return procedures do not apply

to products that are not sold in Entempo's retail packaging.

To the extent permitted by applicable law, your Warranty does not apply to normal wear and tear; damage or loss of data due to interoperability with current and/or future versions of operating system or other current and/or future software and hardware; alterations (by persons other than Entempo or its authorized repair agents); damage caused by operator error, or non-compliance with instructions as set out in the user manual or other accompanying documentation; damage caused by acts of nature such as floods, storms, fires, and earthquakes, etc; products evidencing the product's serial number has been tampered with or removed; misuse, neglect, and improper handling; damage caused by undue physical or electrical stress; counterfeit products; damage to or loss of a product during shipment to or from Entempo; damage or loss of data caused by a computer virus, worm, Trojan horse or memory content corruption; failures of the product which result from accident, abuse, misuse (including but not limited to improper installation, connection to incorrect voltages, and power points, or failures caused by products not supplied by Entempo; damage caused by moisture, corrosive environments, high voltage surges, shipping, or abnormal working conditions; damage caused by any batteries or other power source not provided with the product; or any accompanying items not bearing the Entempo serial number if provided with the product.

In no event will Entempo's liability or damages to you, or any other person, ever exceed the purchase price paid for the product, regardless of the form of the claim.

In addition, Entempo disclaims any obligation to support products for all non Windows[™] operating environments.

* **NOTE:** This warranty gives you specific legal rights. You may have other rights, which vary from state to state or country to country. Certain limitations in this warranty are not permitted by the jurisdiction of some states or countries; therefore some limitations here may not apply to you.

WE AT ENTEMPO VALUE OUR CUSTOMER'S OPINIONS AND WELCOME YOUR SUGGESTIONS. PLEASE FEEL FREE TO VISIT OUR WEBSITE AND (?) PROVIDE US WITH COMMENTS SUGGESTIONS AND YES, EVEN YOUR CRITICISMS. YOU CAN ALSO EMAIL US AT: support@entempo.com